

Fig. 1



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Fig. 2

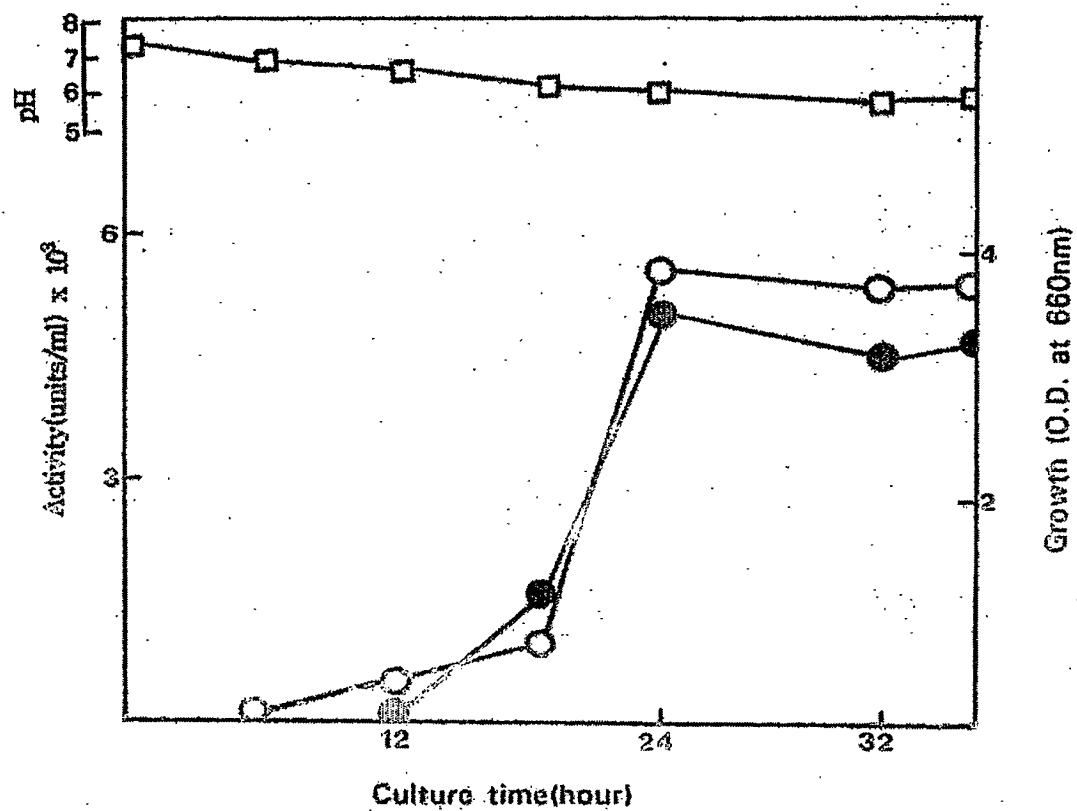


Fig. 3

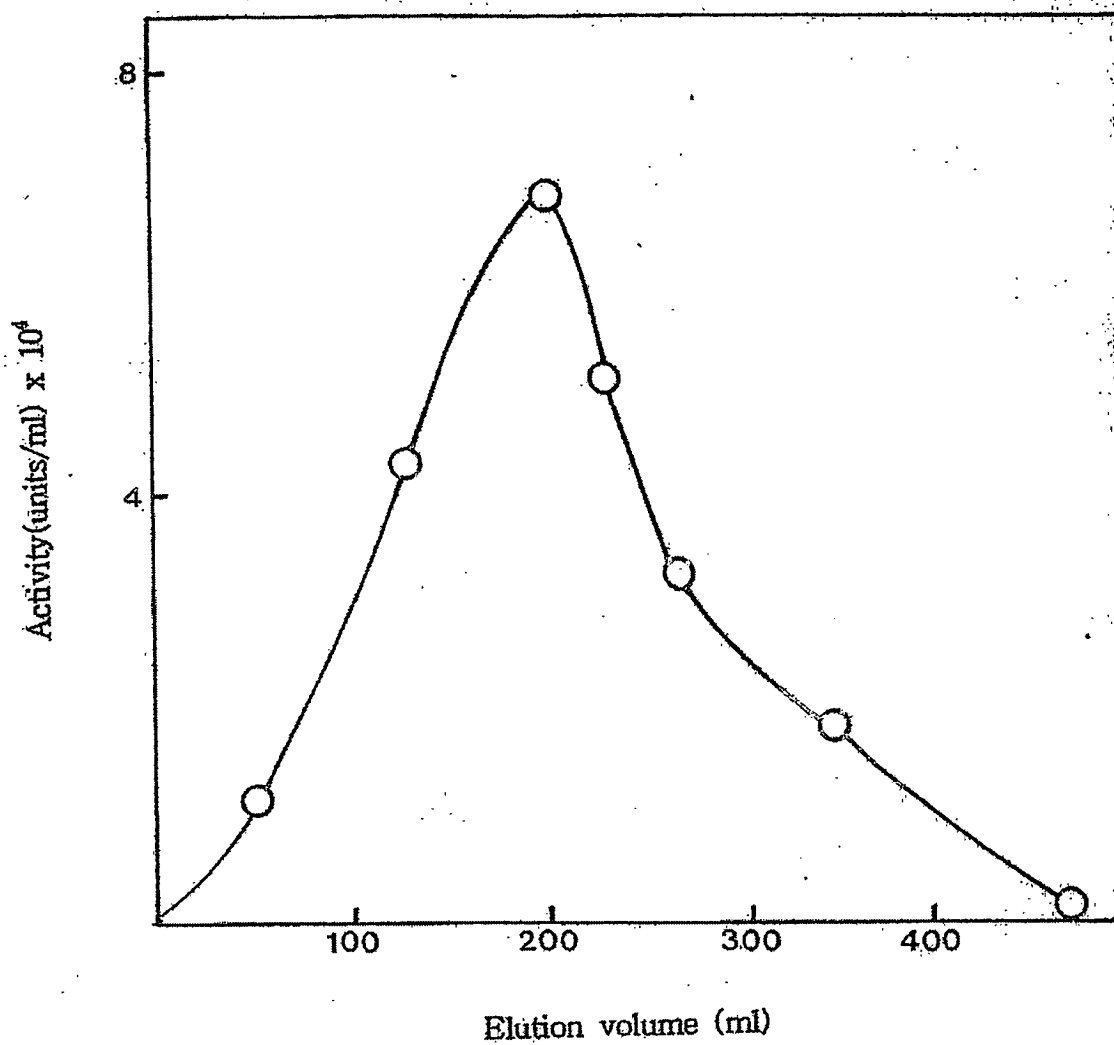


Fig. 4

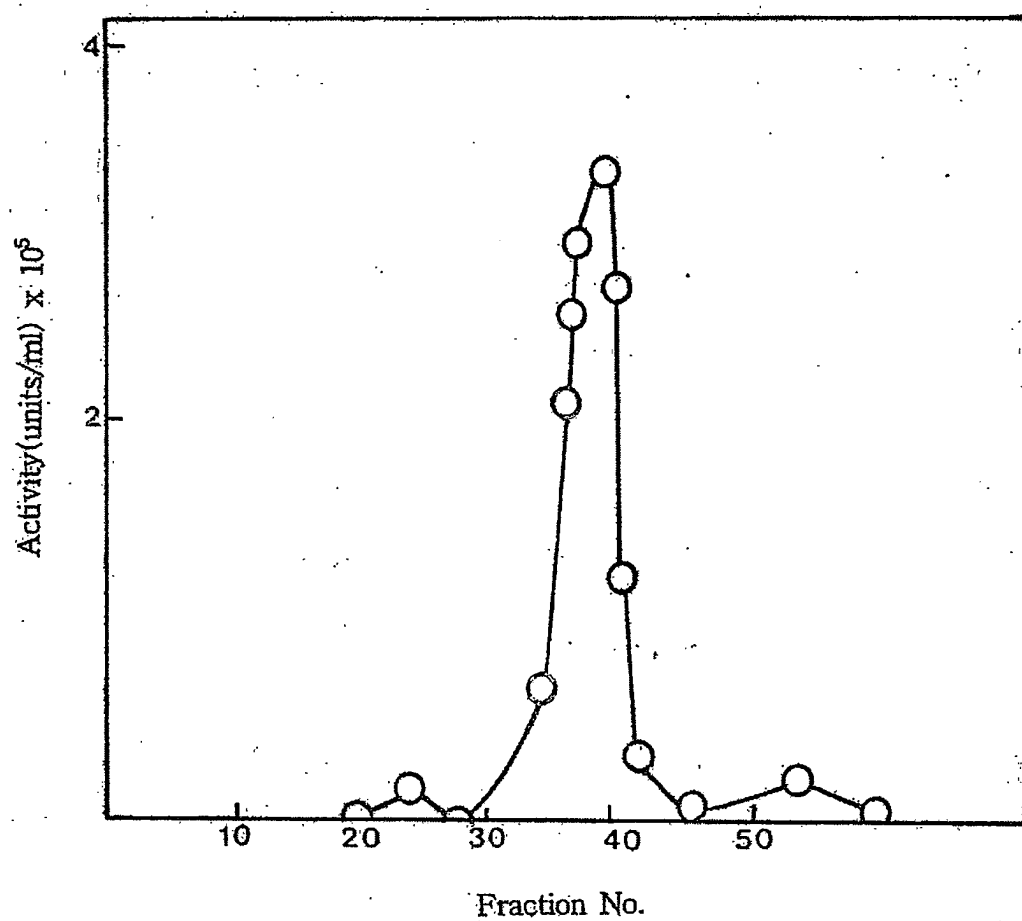


Fig. 5

	Vol. (ml)	Total Activity (units * 10 <sup>3</sup> )	Yield (%)
Culture Broth			
Collect Supernatant by Centrifugation	8,820	45,000	100
Activated Charcoal Extraction	100	31,050	69
Extract with 80% Methanol concentrated in Vacuum			
Methanol Fractionation	50	27,900	62
Removal of Precipitate & Methanol			
Dowex 1x1-100(Cl <sup>-</sup> )	50	23,100	51
Washed with distilled water			
Dowex 50W-X4(H <sup>+</sup> )	30	7,100	15
Eluted with 0.2N NaOH, Evaporated NH <sub>4</sub> OH			
Biogel P <sub>2</sub> Gel Filtration	10	2,250	5
Eluted with milipore water			
Reverse Phase TLC	2	1,507	3
Develop with a developing solution ( NH <sub>4</sub> OH: C <sub>2</sub> H <sub>5</sub> OH:H <sub>2</sub> O=6:4:1)			
Normal Phase TLC	2	1,020	2
Develop with a developing solution ( CHCl <sub>3</sub> :CH <sub>3</sub> OH =7:3), Extract with Methanol			
HPLC			

Fig. 6

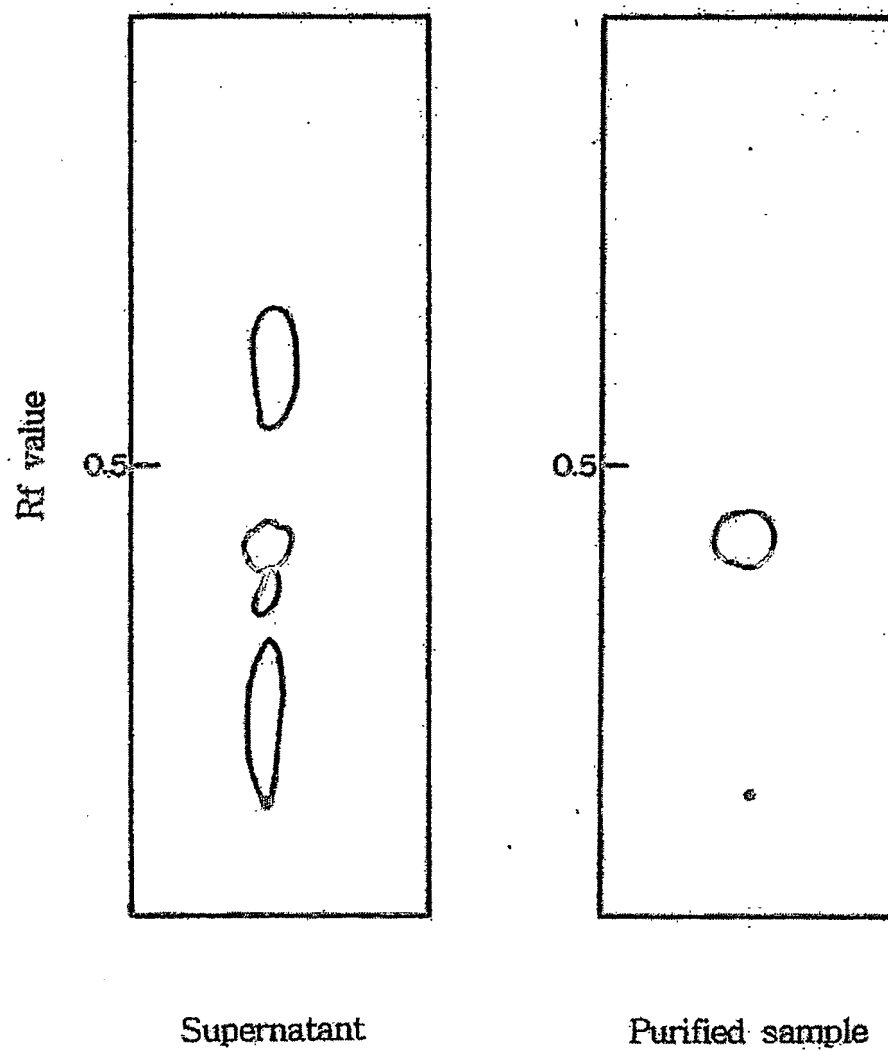


Fig. 7

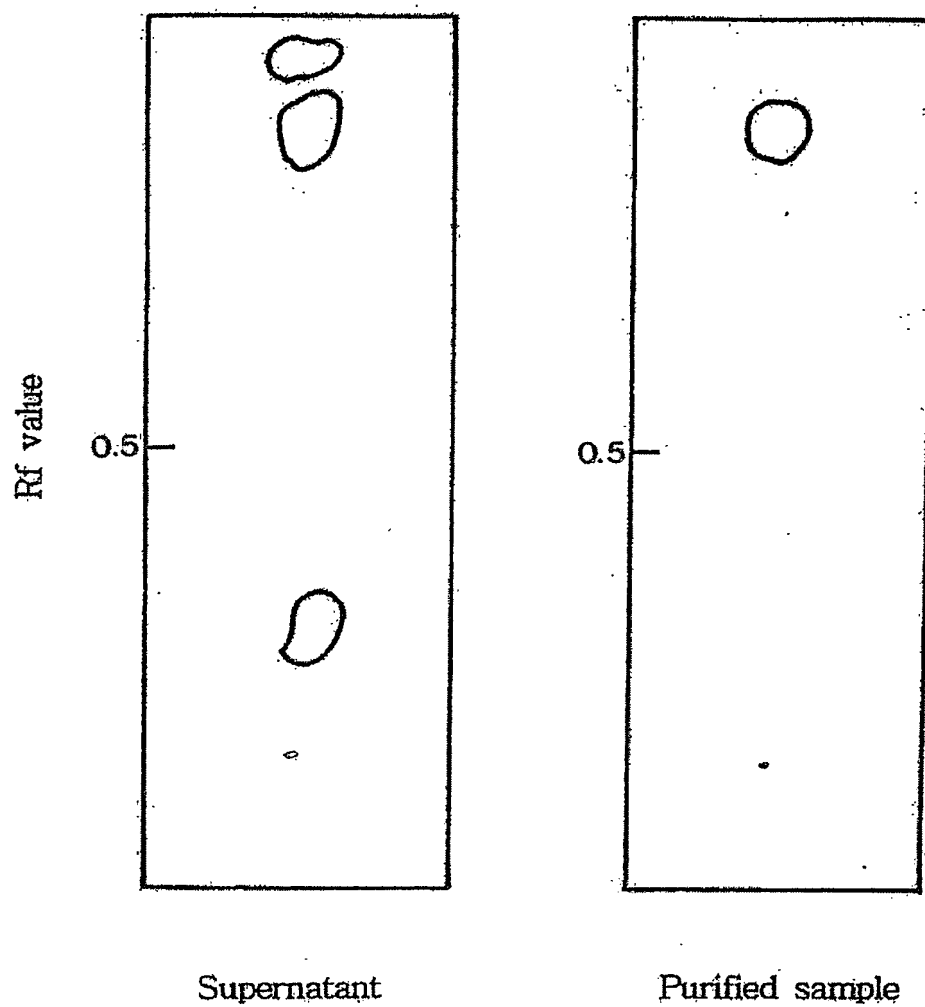


Fig. 8

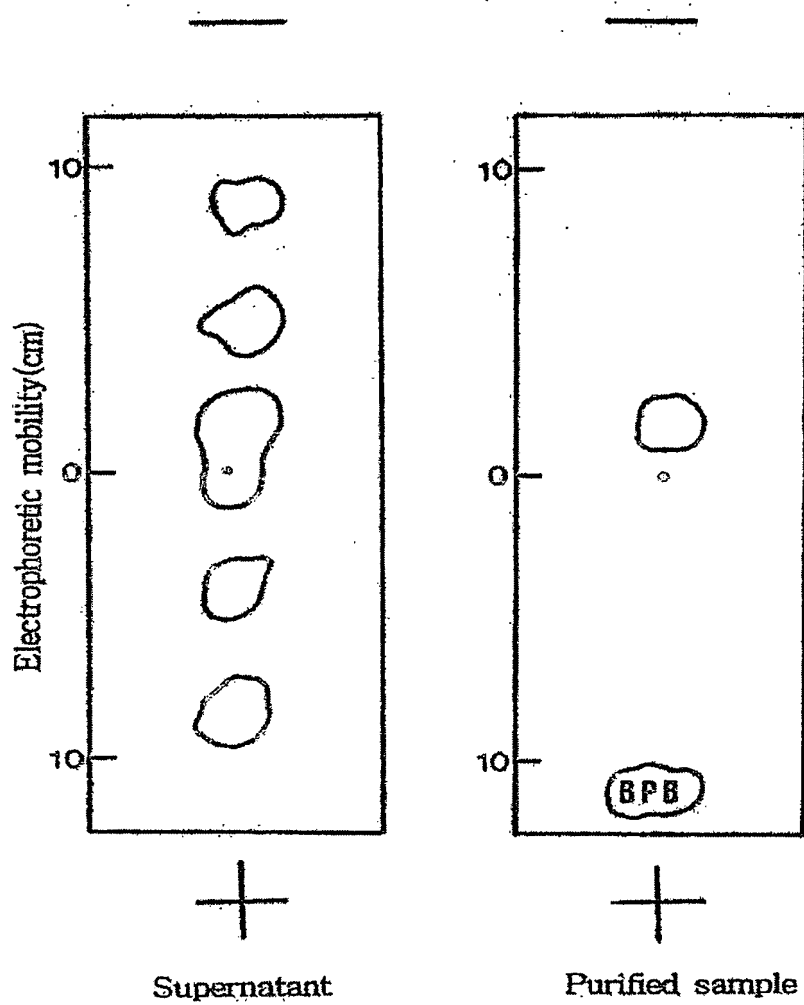




Fig. 9

0.00

CAL. METHOD 00

SF

PA

PB

1000000m+03 1000000m+01 1000000m+01

NO.	NAME	RT	A OR H	MK	CONC
1		8.525	136697		100.0000
TOTAL			136697		100.0000

0.00

Fig. 10

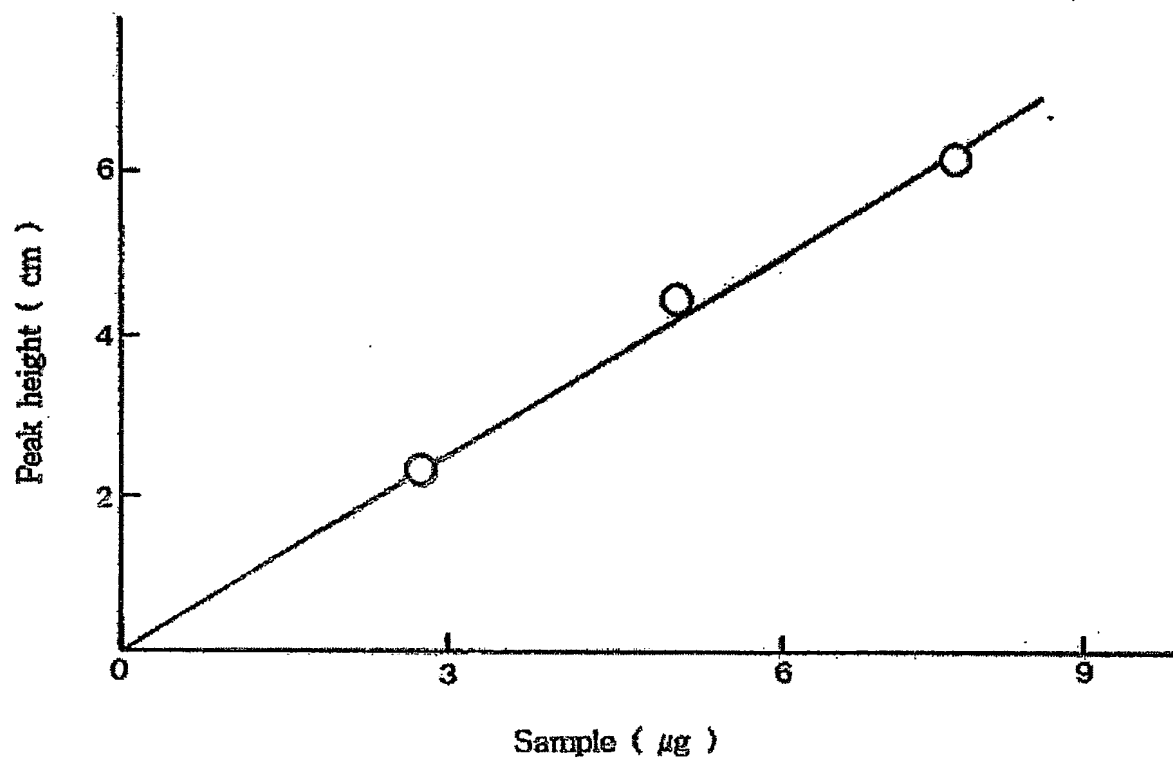


Fig. 11

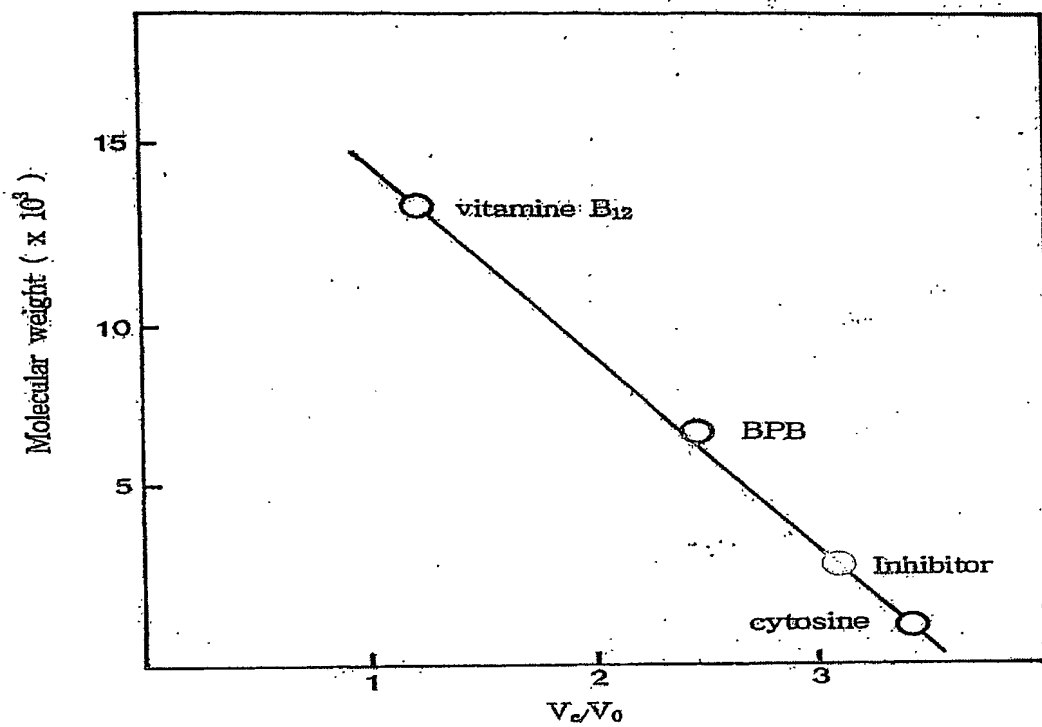


Fig. 12

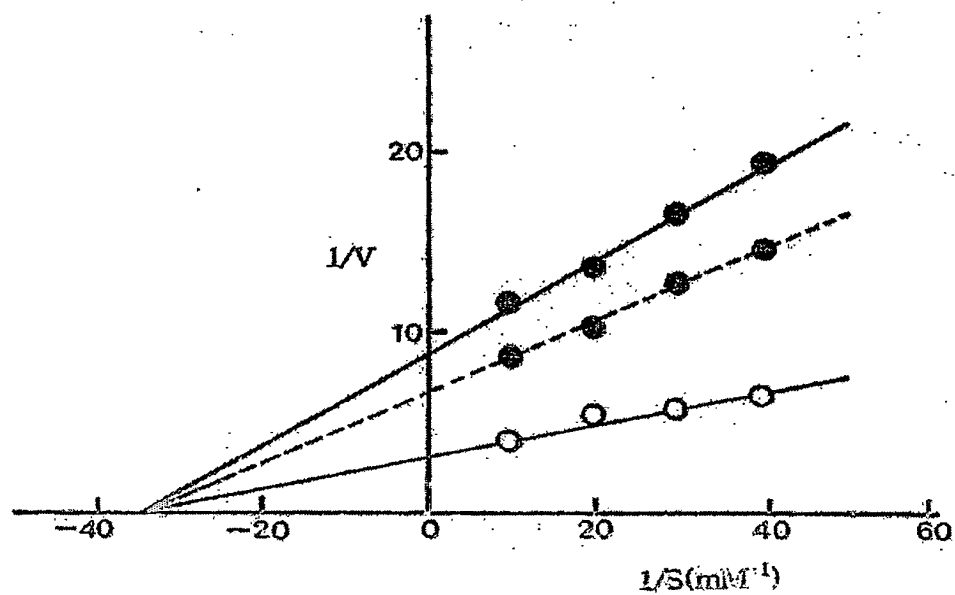


Fig. 13

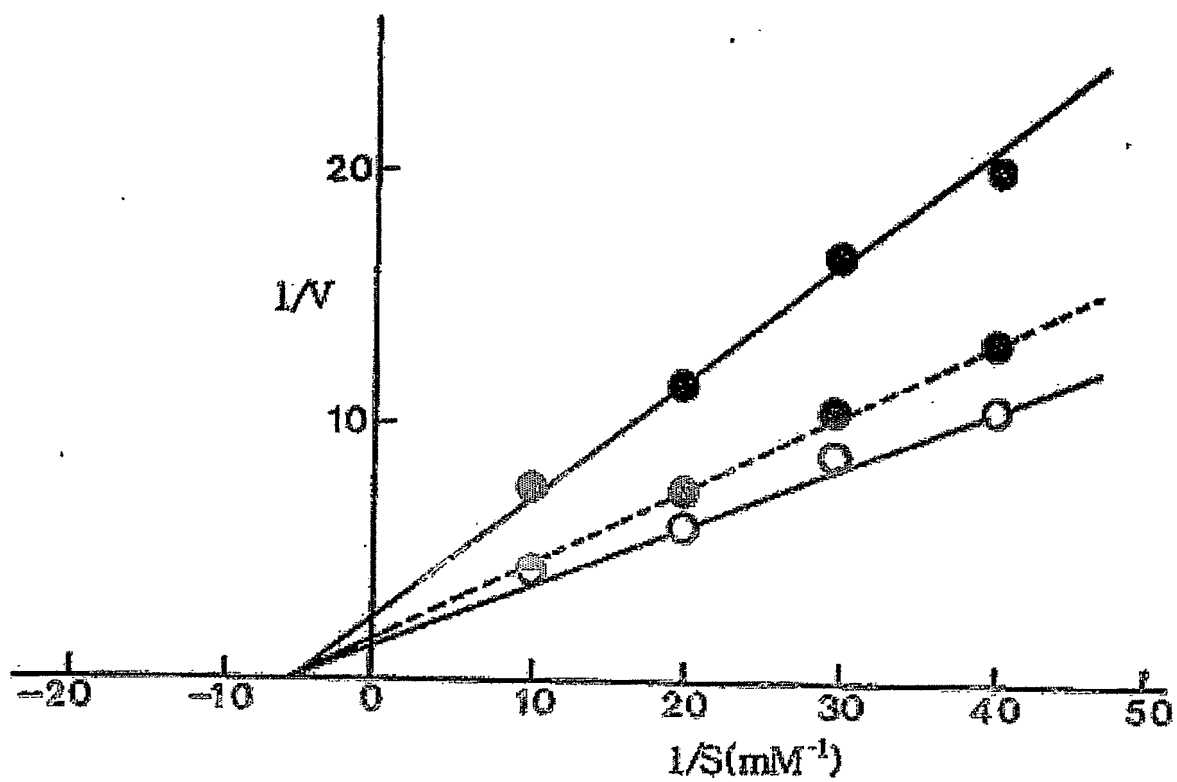


Fig. 14

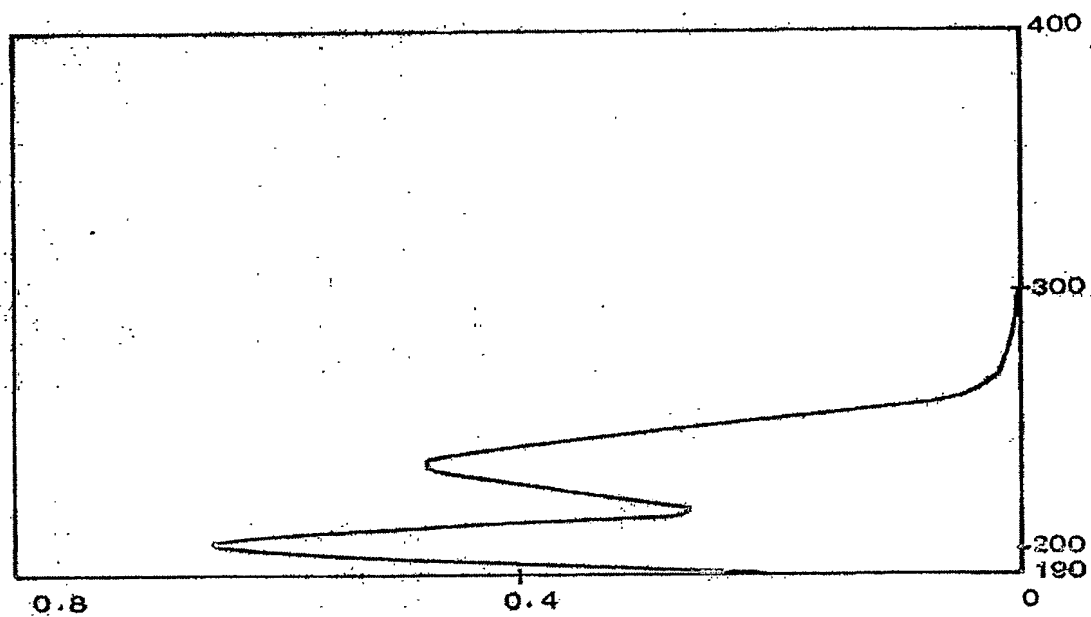


Fig. 15

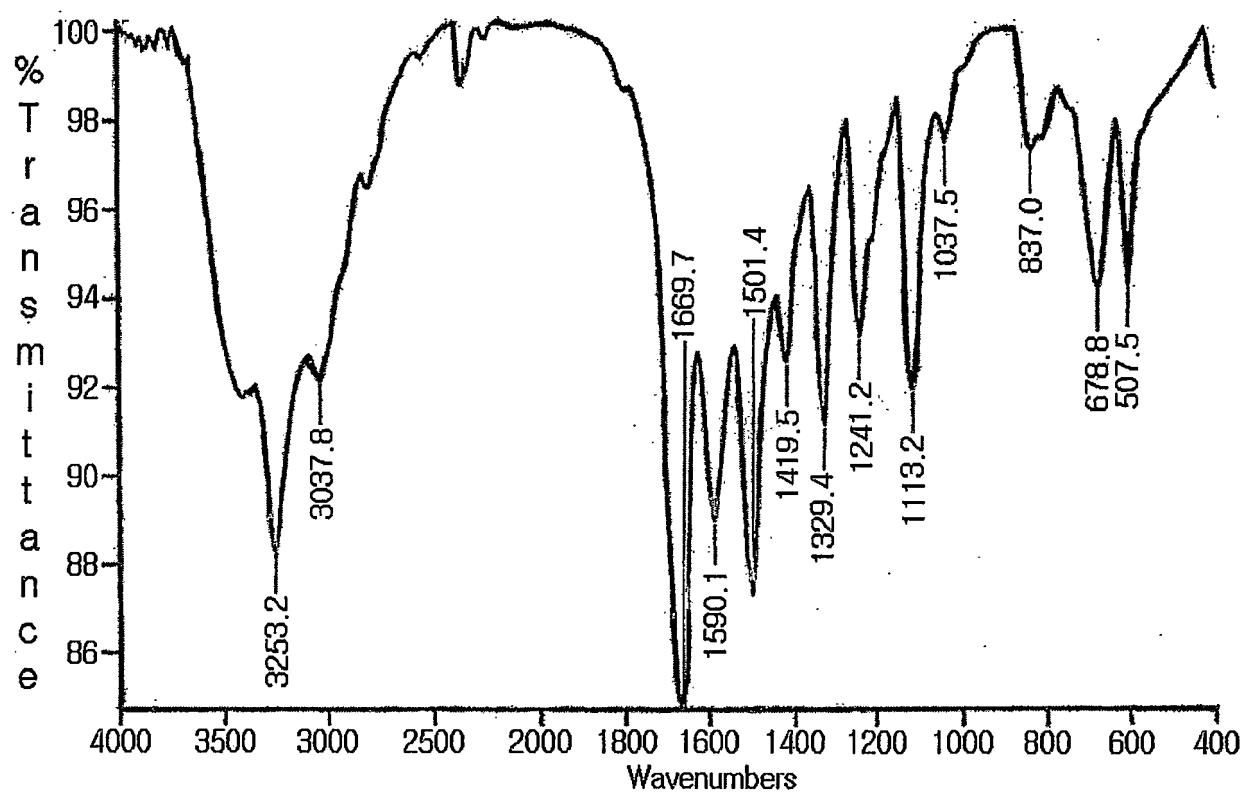


FIG. 16

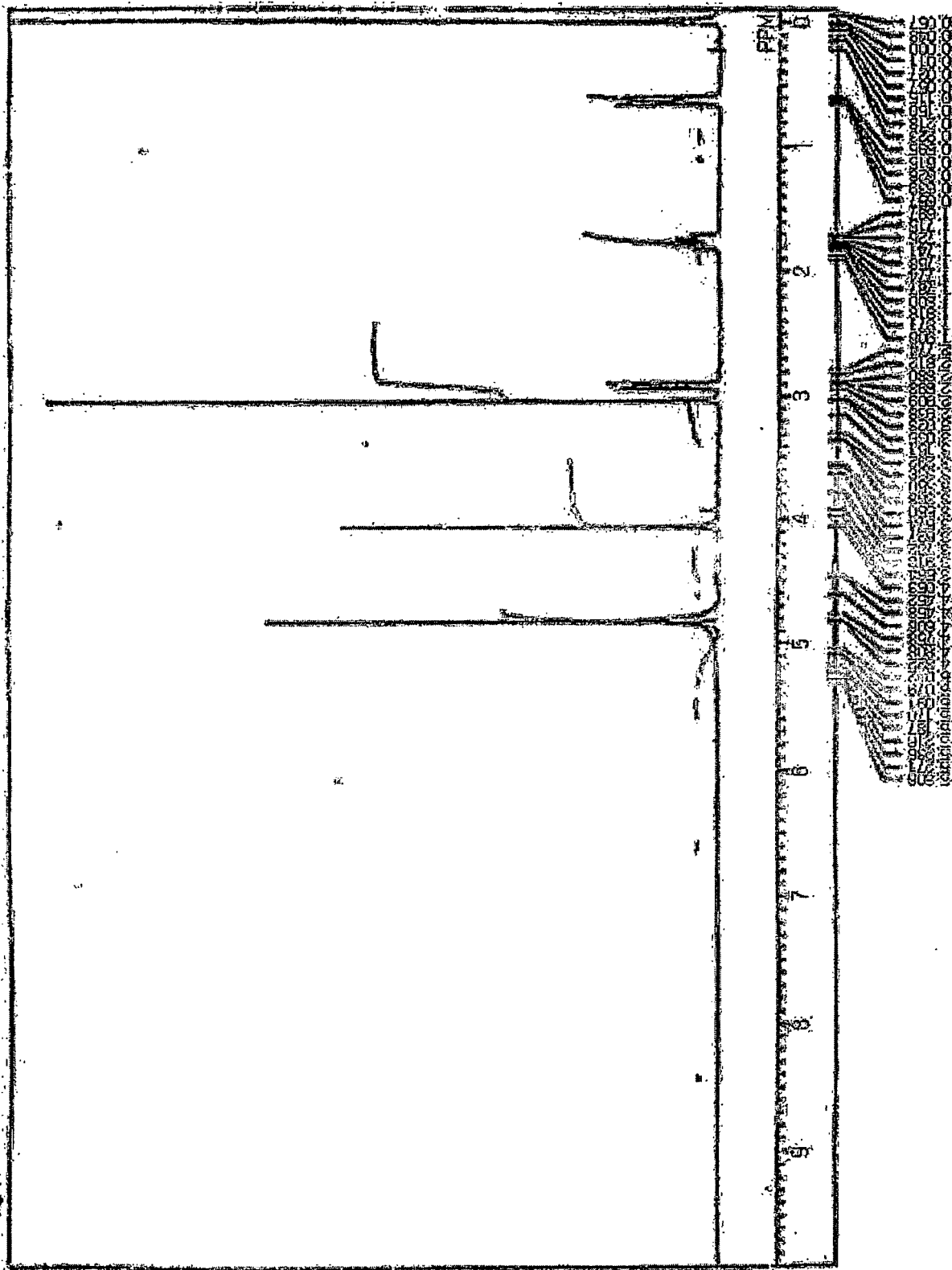




Fig. 17

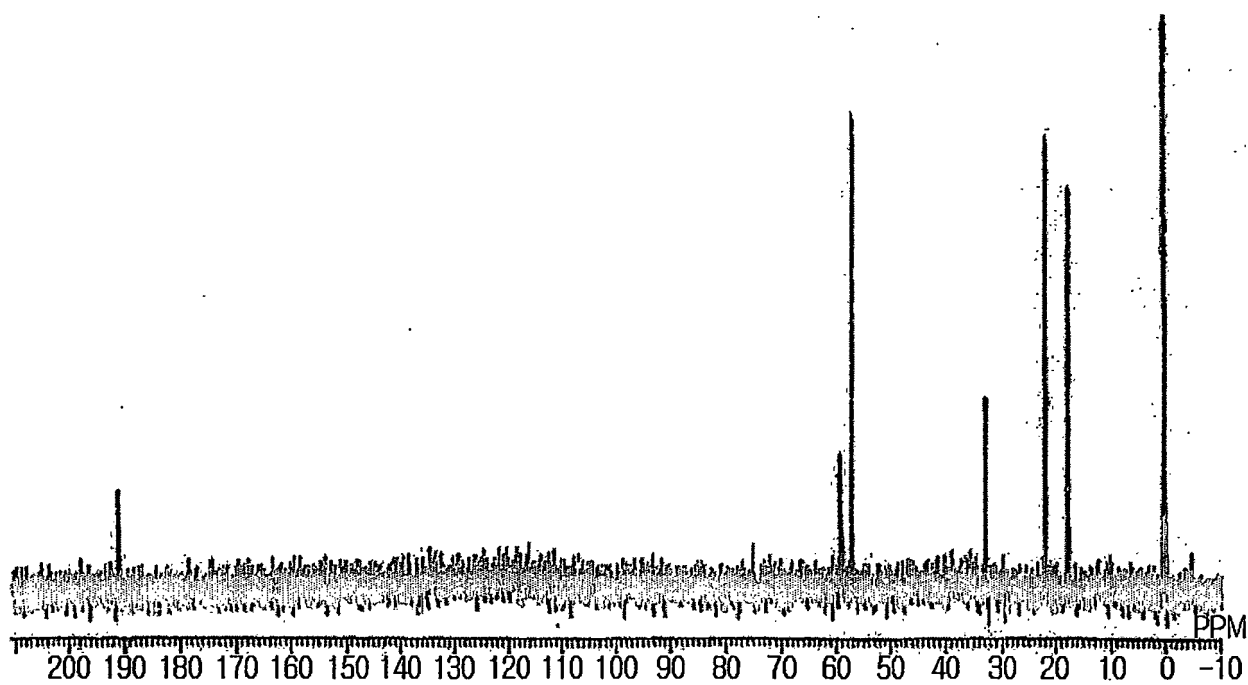


Fig. 18

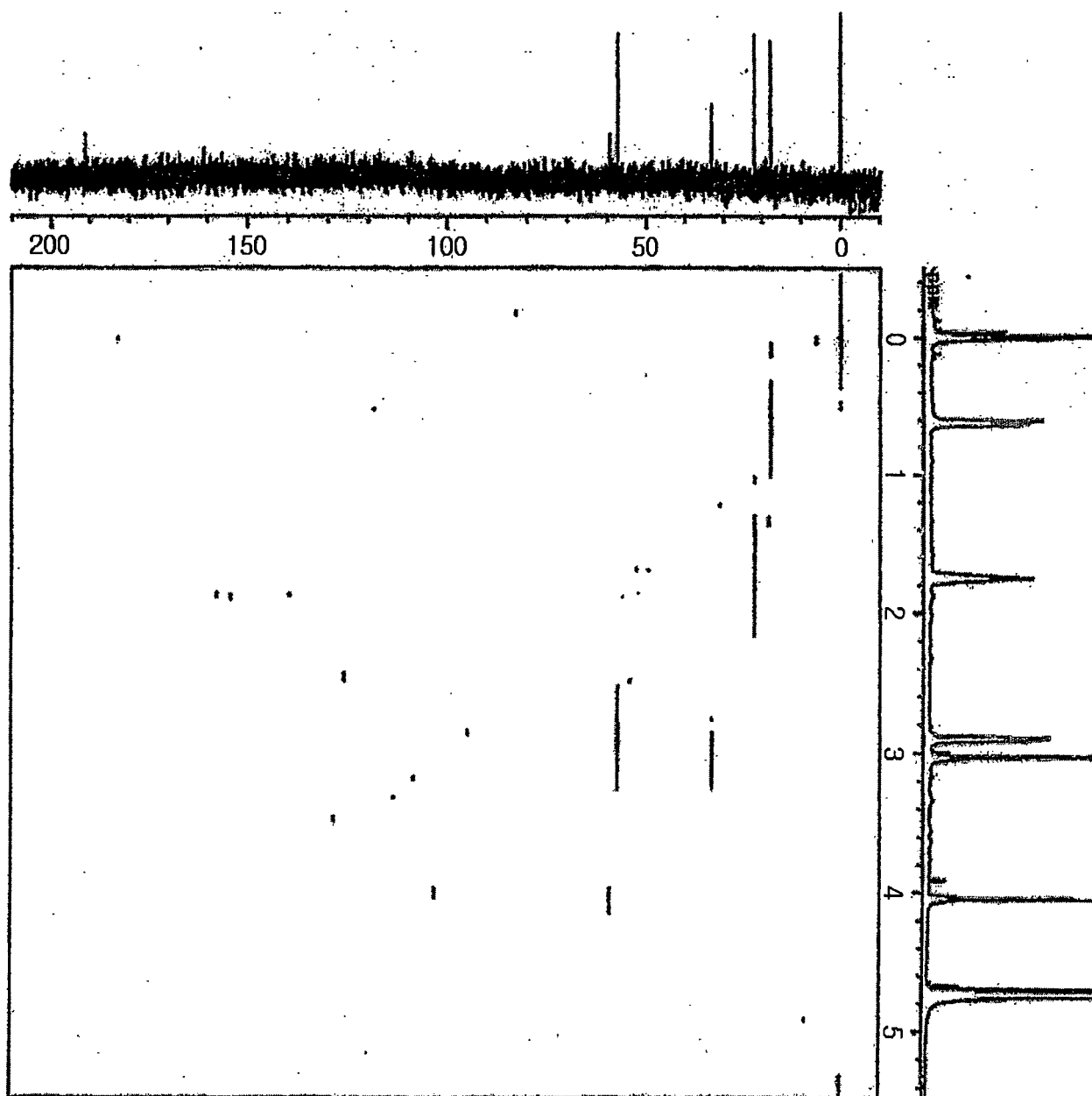


Fig. 19

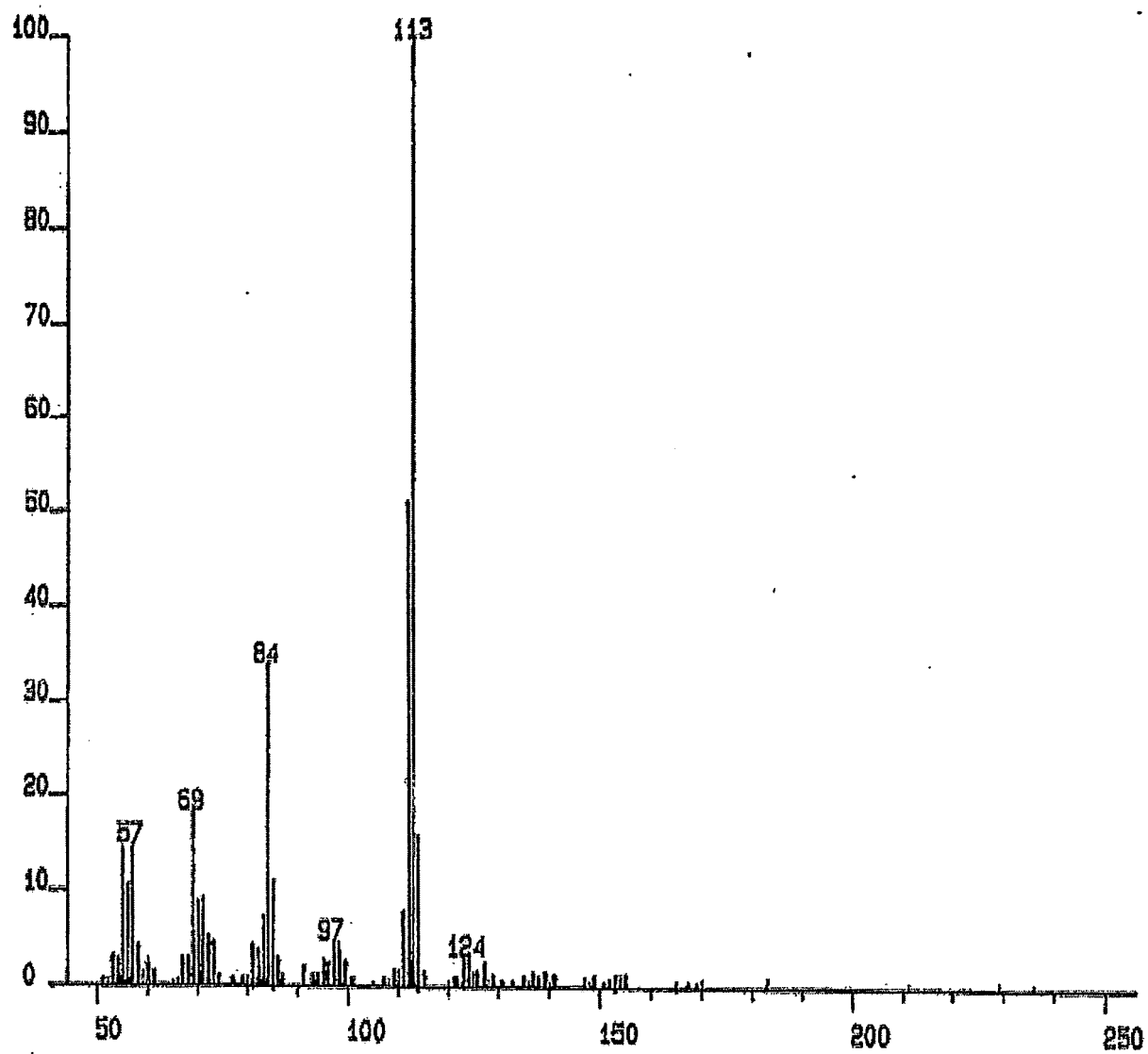


Fig. 20

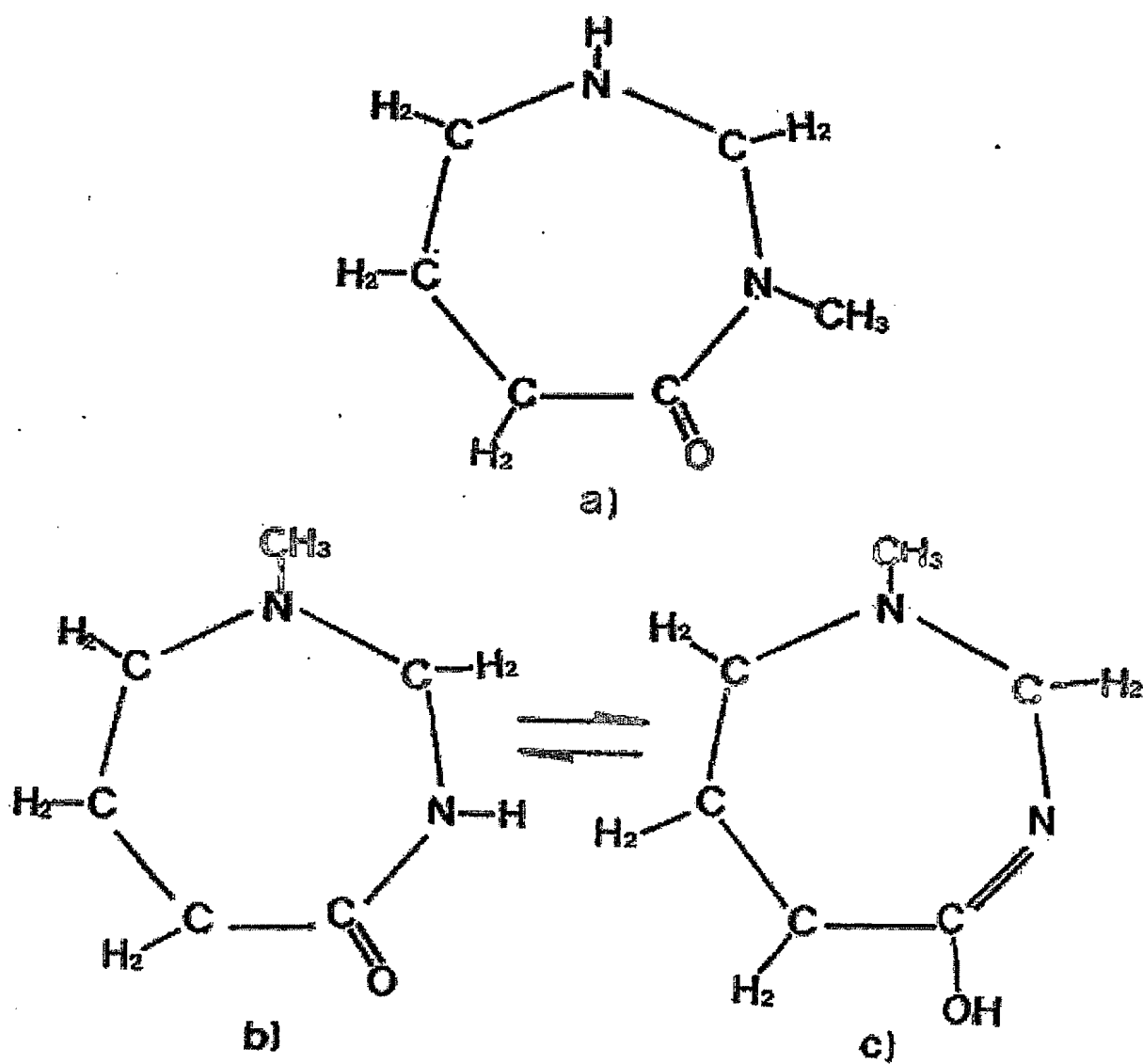
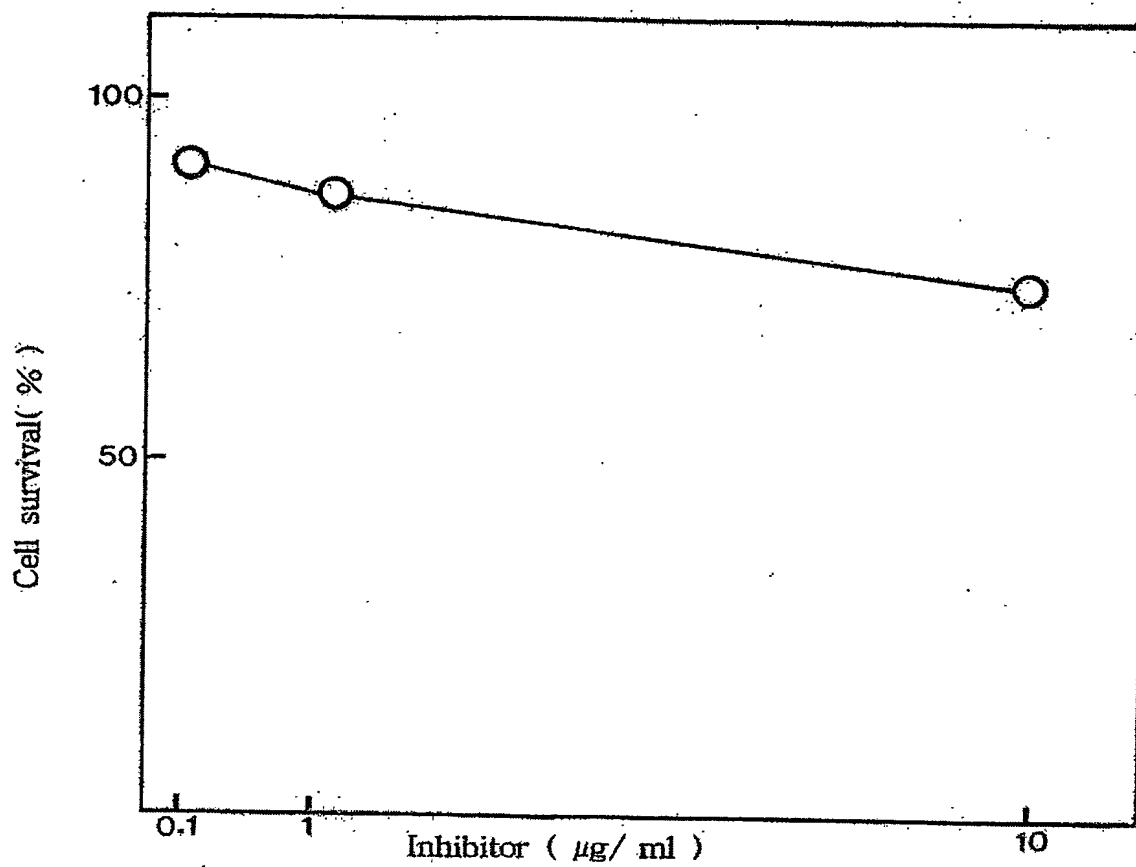


Fig. 21



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